

8W DALI + PUSH Dimming power supply



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.95C
- Efficiency : 78%
- Support DALI-2, Push Dimming
- 5 years warranty
- IP20

Applications

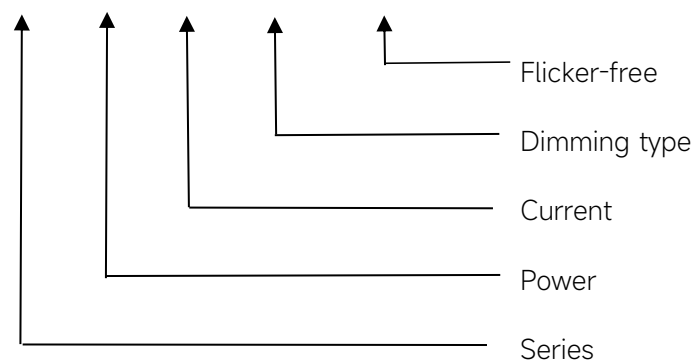
- LED panel, Spot light, Down light

◆ Description

FLS-8-350 DALI-2 LD is an 8W constant current LED driver with 120 to 350mA output current and a forward voltage range from 5 to 42Vdc. The output current is adjustable by DIP Switch. With it's dimensions from 142 x 30 x 20 mm it is easy to integrate in LED panel, spot and down light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

FLS-8-350 DALI-2 LD



◆ Specification

Output	Constant Current （mA）	120	150	180	200	250	280	300	350
	Voltage Range （VDC）	5-42				5-32		5-27	5-24
	Unload voltage Max.	57VDC							
	Current Accuracy	±7%				±6%			
	Output LF current ripple(≤120Hz)	±5%							
	SVM	≤0.4							
	P _{st}	≤1							
	Efficiency(Typ.)	78%							
Input	Rated input voltage	220-240VAC							
	Range of input voltage	198-264VAC							
	Rated input voltage(DC)	198-280VDC							
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor	≥0.5							
	Power Factor	>0.95							
	Input Current	0.12A							
	Start-up time	< 0.6S							
	No Load Power	≤0.5W							
	Standby Power	≤0.5W							
	Network standby power	≤0.5W							
	THD (Typ.)	<10%							
Dimming	Dimming	YES							
	Dimming mode	DALI-2（IEC 62386-101,102,207）& Push							
	Dimming depth	1%							
	Dimming current range	1 ~100%							
Protection	Over Load Protection	103-120%							
		YES/Latch off							
	Over Voltage Protection	> 57VDC							
		YES/Latch off							
	Short circuit Protection	YES/Latch off							
	Over Temperature Protection	YES/Auto Resume							
Environment	Operating Temperature	-20℃~+45℃							
	Humidity	20%-90%RH							
	Tc	80℃							
	Storage Temperature	-25℃~+60℃							
	Lifetime	>50000h,@Tc=70℃							
Surface	Dimension	142 x 30 x 20 (LXWXH)mm							

standards	EN 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547;	
Others	ErP	EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.	

◆ Parameter

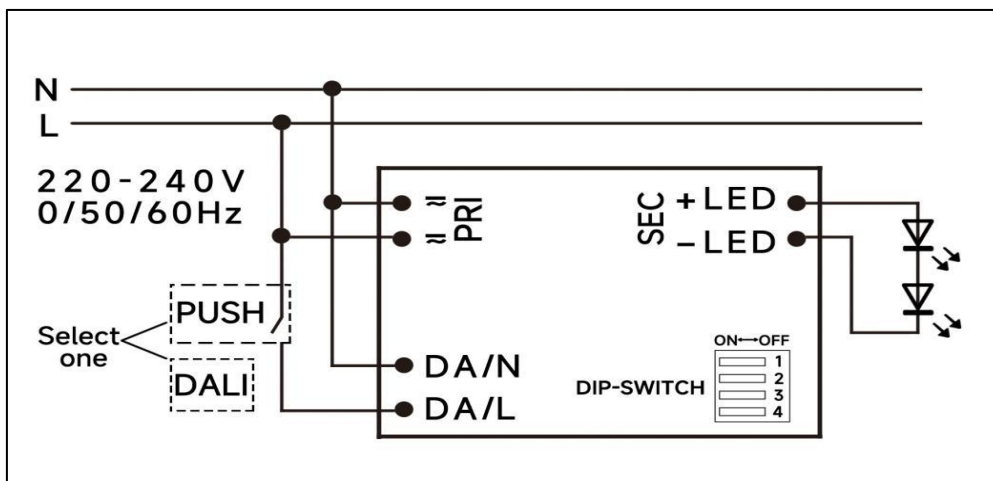
Number	Output	Switch position		
	Current(mA)	1	2	3
1	120	--	--	--
2	150	--	--	ON
3	180	--	ON	--
4	200	--	ON	ON
5	250	ON	--	--
6	280	ON	--	ON
7	300	ON	ON	--
*8	350	ON	ON	ON

* Factory default

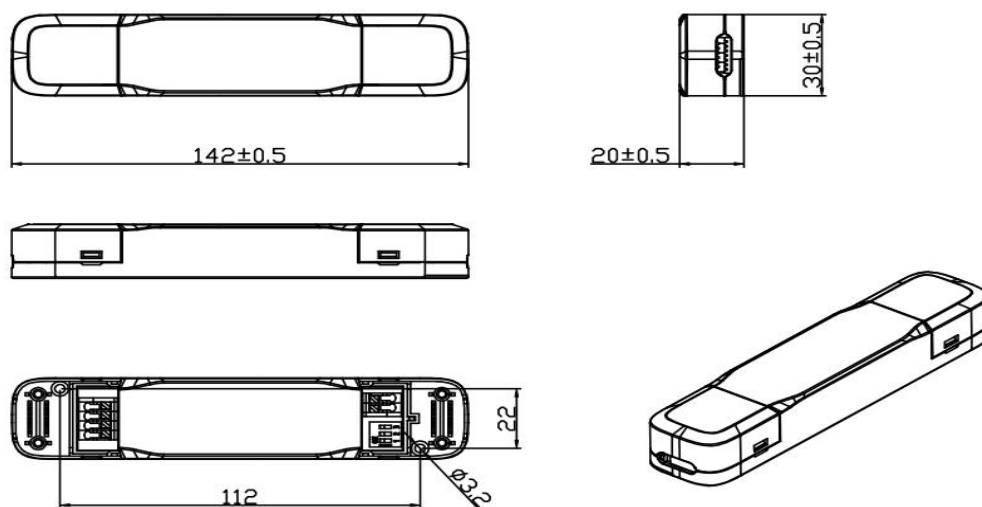
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
2.34A	38.4μs	66pcs	106pcs	133pcs	66pcs	106pcs	133pcs

◆ Wiring diagram



◆ 2D diagram

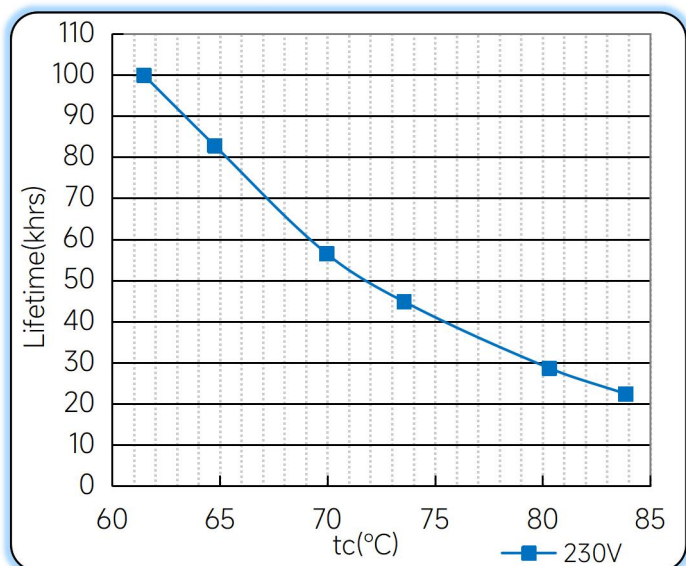


◆ Wiring & Connections

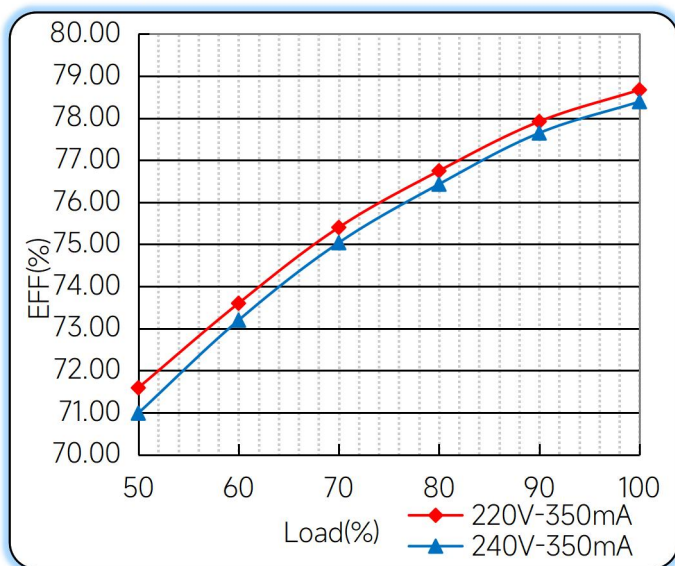
Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	8...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	8...9mm

◆ Curve for FLS-8-350 DALI-2 LD, $I_o=350\text{mA}$

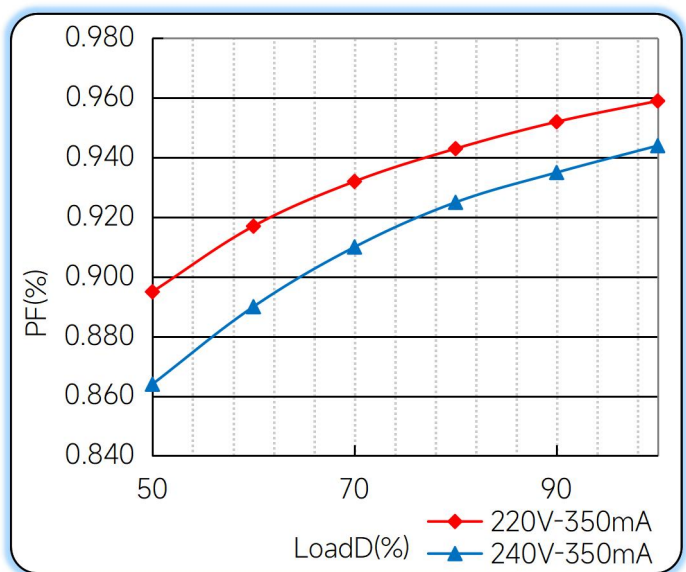
Lifetime vs. Temperature Curve



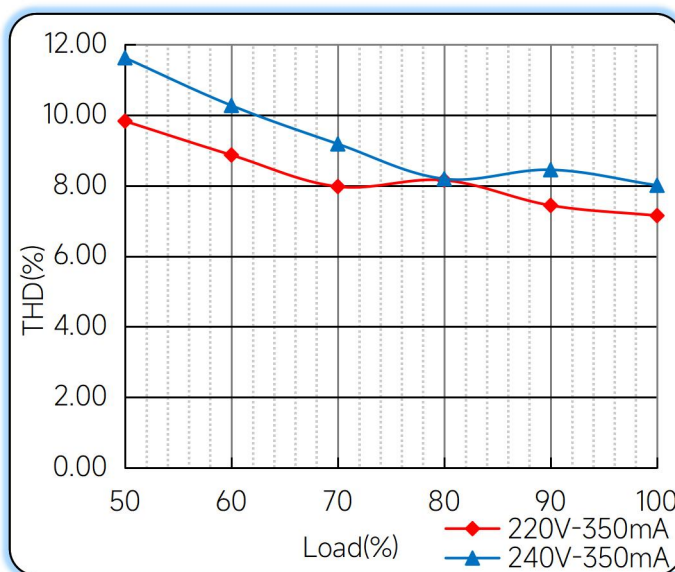
Efficiency vs. Load



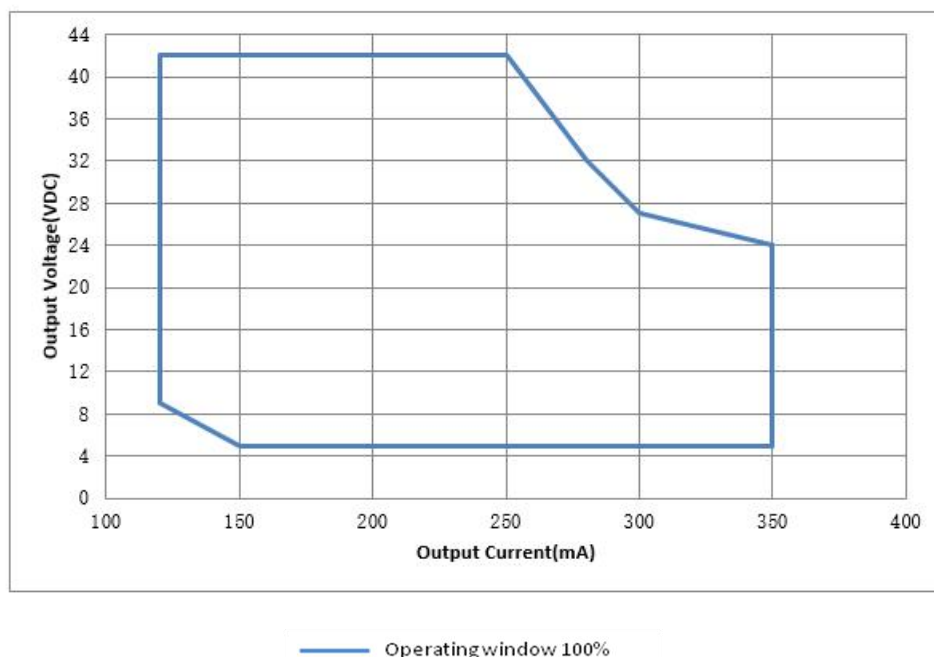
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/02/15

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Manual